U.S. Patent and Trademark Ortics U.S. DEPARTMENT OF COMMERCE

TITTY TTV	Attorney Docket No.		1856-24501	E				
UTILITY DATEST A DRI ICA TION	First Inventor		Yaming Jin					
PATENT APPLICATION				<u> </u>				
TRANSMITTAL	Title			atalyst Support ⊃				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express	Mail Label No.	EV303481361US	945				
APPLICATION ELEMENTS			Mail Stop Patent A	Application 🞖				
See MPEP chapter 600 concerning utility patent application cont	tents	ADDRESS TO:	Commissioner for P. O. Box 1450	Patents				
See MFEI Chapter 000 concerning utility patent approach cont	Circs.	Alexandria, VA 22313-1450						
1. X Fee Transmittal Form (e.g., PTO/SB/17)			M or CD-R in duplicat	te, large table or				
(Submit an original and a duplicate for fee processing)								
2. Applicant claims small entity status.	;		nd/or Amino Acid Seq	uence Submission				
See 37 CFR 1.27.			(if applicable, all necessary) a.					
3. Specification [Total Pages 32]	Specification [Total Pages 32]							
(preferred arrangement set forth below)		b. Specific	ation Sequence Listing CD-ROM or CD-R					
- Descriptive title of the invention		ii. 🗖	paper	• •				
- Cross Reference to Related Applications		c. Statements verifying identity of above copies						
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 		ACCOMPANYING APPLICATION PARTS						
or a computer program listing appendix - Background of the Invention		9. Assignment Papers (cover sheet & document(s))						
- Background of the Invention - Brief Summary of the Invention		10. 🔲 37 CF	R 3.73(b) Statement	☐ Power of				
- Brief Description of the Drawings (if filed)			there is an assignee)	Attorney				
- Detailed Description		11. Englis	sh Translation Docum	ent (if applicable)				
 Claim(s) Abstract of the Disclosure 		12. Inform	nation Disclosure	Copies of IDS				
	ו		ment (IDS)/PTO-1449					
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 1	-	13. Prelin	ninary Amendment					
]	_	n Receipt Postcard (M	(PFP 503)				
b. Copy from a prior application (37 CFR 1.63(d				(Should be specifically itemized)				
(for continuation/divisional with Box 18 comp	(for continuation/divisional with Box 18 completed)			Document(s)				
 i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) 				ed)				
Named in the prior application, see 37 CFR	,		der 35 U.S.C.					
1.63(d)(2) and 1.33(b).		122(b)(2)(B)(i). Applicant must attach form						
6. Application Data Sheet. See 37 CFR 1.76		PTO/SB/35 or its equivalent.						
CONTROL PRIOR ADDITION About consequence	·- 1- av	17. Other		-1 in a praliminary				
18. If a CONTINUING APPLICATION, check appropria amendment, or in an Application Data Sheet under 37 CFR 1		and supply the rec	quisite information oc	How in a premimary				
Continuation Data Sheet under 37 CFR 1.70. Continuation Divisional Continuation-in-Part (CIP) of prior application No.:								
Prior application information: Examiner Group/Art Unit:								
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The								
incorporation can only be relied upon when a portion has been inadverter	ntly omitted	d from the submitted a	application parts.					
19. CORRESPONDENCE ADDRESS Customer Number of Bar Code Label 31889 or Correspondence address below								
Customer Number of Bar Code Label 31889		or 📙	Correspondence addre	SS DEIGW				
Name								
Address	Chara							
Country Tele	State ephone		Zip Code Fax	e				
		Registration No. (47,146				
Name (Print/Type) Tod T. Tumey		Registration No. (Altoricy/Agent)	47,140				
Signature			Date: O	October 16, 2003				

The collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA. 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

0.1603

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
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EEE TOANGMITTA		Complete if Known						
FEE TRANSMITTA	L	Applic	cation N	lumbe	er	Not Yet Assigned		
for FY 2004		Filing Date						
		First Named Inventor		tor	Yaming JIN			
Effective 10/01/2003. Patent fees are subject to annual revision.		Examiner Name			Unknown			
Applicant claims small entity status. See 37 CFR 1.27	Art Unit					Unknown		
TOTAL AMOUNT OF PAYMENT (\$) 1,274.00		Attorney Docket No. 1856-24501				1856-24501		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
Check Credit card Money Other None	3. ADDITIONAL FEES							
Deposit Account:		Entity						
Deposit Account 03-2769		Fee Fee Fee Fee Description Code (\$)			Fee Description	Fee Paid		
Number	1051		2051			narge - late filing fee or oath		
Deposit Account Conley Rose, P.C.	1052	2 50	2052			narge - late provisional filing fee or sheet		
Name The Director is authorized to: (check all that apply)	1053		1053			English specification		
Charge fee(s) indicated below Credit any overpayments	ľ	2,520	1812 2			ing a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804			esting publication of SIR prior to niner action		
Charge fee(s) indicated below, except for the filing fee	1,805	1,840*	1805 1	1,840*		esting publication of SIR after niner action	<u> </u>	
to the above-identified deposit account.	1251	110	2251	55		nsion for reply within first month		
FEE CALCULATION	1252		2252	210		nsion for reply within second month		
1. BASIC FILING FEE Large Entity Small Entity	1253		2253			nsion for reply within third month		
Fee Fee Fee Fee Description Fee Paid		1,480	2254	740		nsion for reply within fourth month		
Code (\$) Code (\$)		2,010	2255	1.005		nsion for reply within fifth month		
1001 770 2001 385 Utility filing fee 770.00	1401		2401			ce of Appeal		
1002 340 2002 170 Design filing fee 1003 530 2003 265 Plant filing fee	1402		2402			g a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403		2403		_	est for oral hearing		
1005 160 2005 80 Provisional filing fee	l .	1,510	l			on to institute a public use proceeding		
SUBTOTAL (1) (\$) 770.00	1452	•	2452			on to revive - unavoidable		
	1453	3 1,330	2453	665	Petiti	ion to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501			y issue fee (or reissue)		
Ext <u>ra Claims below</u> Fee Paid	1502		2502		•	gn issue fee		
Total Claims 48 -20** = 28	1503	640	2503	320	Plan	t issue fee		
Claims 3 - 3** =	1460	130	1460	130	Petit	ions to the Commissioner		
Multiple Dependent =	1807	7 50	1807	50	Proc	essing fee under 37 CFR 1.17(q)		
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806	180	Subn	nission of Information Disclosure Stmt		
Code (\$) Code (\$)	8021	l 40	8021	40		ording each patent assignment per erty (times number of properties)	<u> </u>	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing	g a submission after final rejection CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385		each additional invention to be nined (37 CFR 1.129(b))		
1204 86 2204 43 ** Reissue independent claims over original patent	180	1 770	2801	385		uest for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	180	2 900	1802	900		quest for expedited examination design application		
SUBTOTAL (2) (\$) 504.00		er fee (sp					<u> </u>	
**or number previously paid, if greater; For Reissues, see above	*Red	duced by	Basic F	iling F	ee Pa	id SUBTOTAL (3) (\$) -0-		

(Complete (if applicable)) SUBMITTED BY Registration No. Name (Print/Type) Tod T. Tumey 47,146 Telephone 713-238-8000 Signature Date Oct. 16, 2003

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